

Application No.: 10/799,391

Docket No.: CVZ-018

**AMENDMENTS TO THE CLAIMS****RECEIVED  
CENTRAL FAX CENTER****APR 18 2007**

1-5. (Canceled)

6. (Currently Amended) In an electronic device holding a system-level design and simulation environment for designing a device to be fabricated through a manufacturing process, said system-level design and simulation environment interfaced with at least one system-level schematic that includes multiple components and a location holding process data external to said environment, each said component including a component model, said component model being a mathematical description of component behavior, a method, comprising:

providing a process specification tool for retrieving the process data and communicating said process data to said system-level design and simulation environment; and

integrating said process specification tool with the system level design and simulation environment to programmatically alter the components of said system-level schematic based on changes in said process data, said process data including a process specification and a collection of material properties data;

providing with said process specification tool a user interface for a user to enable the user to specify a name of said system-level schematic, a name of a collection of material properties data, and a name of a process specification, said names referencing a storage location holding data for the system-level schematic, a storage location holding the materials properties data and a storage location holding the process specification data respectively; and

receiving a user-selection of the name of the system-level schematic, a collection of material properties data and the name of a process specification via said user interface.

7. (original) The method of claim 6 wherein said process data includes a process specification, said process specification listing the steps of a manufacturing process for said device to be fabricated.

8. (original) The method of claim 6 wherein said process data includes material properties for said manufacturing process.

9. (Previously Presented) The method of claim 6, further comprising:

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retrieving said process data with said process specification tool;  
providing the retrieved process data to said system-level design and simulation environment; and  
using said process data and said system-level schematic in a simulation.

10. (Previously Presented) The method of claim 9, further comprising:

altering said process data, said alteration being reflected in the components of said system-level schematic as a result of the integration of said process specification tool; and  
re-running said simulation using said altered data.

11. (original) The method of claim 10 wherein the process data being altered is a process specification.

12. (original) The method of claim 10 wherein the process data being altered is a collection of material properties data.

13. (original) The method of claim 6 wherein said system-level design and simulation environment includes a schematic editor.

14. (Canceled)

15. (Currently Amended) The method of claim-146, further comprising:

running a first simulation based upon the user selections received via said user interface;  
receiving an altered selection of at least one of a name of said collection of materials properties data and name of a process specification via said user interface;  
associating said system-level schematic components with data referred to by said altered selection; and  
running a second simulation based upon the at least one altered user selection received via said user interface.

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16. (Currently Amended) The method of claim 14 6, further comprising:

receiving an altered selection of the name of said system-level schematic, the altered name of the system-level schematic thereby becoming programmatically associated with the material properties data and the process specification data selected by the user.

17. (original) The method of claim 6 wherein said process data programmatically supplies parameters to said component models.

18. (original) The method of claim 6 wherein said system-level design and simulation environment is used to design and simulate a MEMS (Micro-Electrical Mechanical System) device.

19. (original) The method of claim 6 wherein said system-level design and simulation environment is used to design and simulate a micro-fabricated device.

20. (Currently Amended) A storage medium for use with an electronic device, the storage medium holding computer-executable instructions for a system-level design and simulation environment for designing a device to be fabricated through a manufacturing process, said system-level design and simulation environment interfaced with at least one system-level schematic that includes multiple components and a location holding process data external to said environment, the instructions comprising:

instructions for providing a process specification tool for retrieving the process data and communicating said process data to said system-level design and simulation environment; and

instructions for integrating said process specification tool with the system level design and simulation environment, said integration programmatically altering the components of said system-level schematic based on changes in said process data, said process data including a process specification and a collection of material properties data;

instructions for providing with said process specification tool a user interface for a user to enable the user to specify a name of said system-level schematic, a name of a collection of material properties data, and a name of a process specification, said names referencing a storage

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location holding data for the system-level schematic, a storage location for the materials properties data and a storage location for the process specification data respectively; and instructions for receiving a user-selection of the name of the system-level schematic, a collection of material properties data and the name of a process specification via said user interface.

21. (original) The medium of claim 20 wherein said process data includes a process specification, said process specification listing the steps of a manufacturing process for said device to be fabricated.
22. (original) The medium of claim 20 wherein said process data includes material properties for said manufacturing process.
23. (Previously Presented) The medium of claim 20 wherein the instructions further comprise:  
instructions for retrieving said process data with said process specification tool;  
instructions for providing the retrieved process data to said system-level design and simulation environment; and  
instructions for using said process data and said system-level schematic in a simulation.
24. (Previously Presented) The medium of claim 23 wherein the instructions further comprise:  
instructions for altering said process data, said alteration being reflected in said system-level schematic as a result of the integration of said process specification tool; and  
instructions for re-running said simulation using said altered data.
25. (original) The medium of claim 24 wherein the process data being altered is the process specification.
26. (original) The medium of claim 24 wherein the process data being altered is the collection of material properties data.
27. (Canceled)

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28. (Currently Amended) The medium of claim ~~27~~20 wherein the instructions further comprise:  
instructions for running a first simulation based upon the data referenced by the user selections received via said user interface;  
instructions for receiving an altered selection of at least one of the name of said collection of materials properties data and the name of said process specification via said user interface;  
instructions for associating said system-level schematic components with data referred to by said altered selection; and  
instructions for running a second simulation based upon the at least one altered user selection received via said user interface.

29. (Currently Amended) The medium of claim ~~28~~20 wherein the instructions further comprise:  
instructions for receiving an altered selection of the name of said system-level schematic, the altered name of the system-level schematic thereby becoming programmatically associated with the material properties data and the process specification data selected by the user.

30. (original) The medium of claim 20 wherein said process data programmatically supplies parameters to said component models.

31. (original) The medium of claim 20 wherein said system-level design and simulation environment is used to design and simulate a MEMS (Micro-Electrical Mechanical System) device.

32. (original) The medium of claim 20 wherein said system-level design and simulation environment is used to design and simulate a micro-fabricated device.

33-36. (Canceled)